OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF RECLAMATION

ATTACHMENT 20
(SEDIMENTATION POND/IMPOUNDMENT DATA SHEET)

Applicant's Name THE OHIO VALLEY COAL COMPANY Pond # 014

Type of impoundment EXCAVATED Permanent _____ Temporary X

1. POND DRAINAGE AREA DATA:

a) Drainage area 95 acres
b) Disturbed area 95 acres
c) Ave. land slope 1 %
d) Hydrologic soil group N/A (MINE REFUSE)
e) Hydraulic length 3450 ft.
f) Cover/condition of the undisturbed area N/A

2. DESIGN STORM CRITERIA:

a) Method:

1) Design method (s) including computer programs: SEDCAD +

2) SCS curve number 87

b) Rainfall Amount/Peak Flow

	Rainfall, in.	Peak flow, cfs.
1) 10 year, 24 hour =	3.7	162
2) 25 year, 24 hour =	4.3	199
3) 50 year, 6 hour = (if permanent)		
4) 100 year, 6 hour = (if 20/20 size)		

3. POND SIZE:

a) Dimensions: **N/A**

1) Dam height _____ ft.
2) Dam width _____ ft.
3) Dam length _____ ft.
4) Dam downstream slope _____ %
5) Dam upstream slope _____ %
6) Core length ____ ft. ____ ft. ___ ft.

b) Sediment storage volume 10.62 ac. ft. is provided below the 1006.0 foot elevation.

c) Stage/Area Data:

	Elevation ft.	Surface Area ac.	Volume ac.ft.
1) Bottom of pond	1000.0	1.54	0
2) Streambed at upstream toe:	N/A	N/A	N/A
3) Principal spillway inlet:	N/A	N/A	N/A
4) Exit Channel Crest:	1006.0	2.01	10.62
5) Top of embankment:	1010.0	2.35	19.33

PRINCIPAL SPILLWAY: **N/A**

a) Pipe length _____ ft.
b) Pipe diameter _____ in.
c) Pipe slope _____ %
d) Riser diameter _____ in.
e) Riser height _____ ft.
f) Type of pipe _____
g) Number of anti-seep collars _____; spacing along pipe _____ ft.
h) Does the design include a trash rack? _____ Yes, _____ No.
i) Does the design include an anti-vortex device? _____ Yes, _____ No.

5. EMERGENCY SPILLWAY/EXIT CHANNEL:

a) Base width 20 ft.
b) Design flow depth 0.7 ft. Depth in level section 1.7 ft.
c) Exit slope 10 %
d) Exit velocity 9.4 fps
e) Channel lining ROCK RIPRAP (DMAX=12")
f) Side slopes 2:1
g) Freeboard 2.3 ft.
h) Entrance slope 33 %
i) Length of level section 10 ft.

6. The minimum static factor of safety for this impoundment is 1.5

7. Provide as an addendum to this attachment a detailed plan view or 2 cross sections of the impoundment.

8. COMMENTS A 6 INCH DIAMETER CORRUGATED POLYETHYLENE PIPE 80' LONG AT A SLOPE OF 6% WILL BE USED TO DEWATER THE POND. THE INVERT WILL BE AT THE 1004.0 ELEVATION.

9. Is this an MSHA structure? _____Yes, X No. If "yes," provide the MSHA ID. number if one has been assigned _____.

10. If this is to be retained as a permanent impoundment, submit an addendum to this attachment demonstrating compliance with rule 1501:13-9-04(H) (2) of the Administrative Code.

11. I hereby certify that this impoundment is designed to comply with the applicable requirements of rule 1501:13-9-04 of the Administrative Code using current, prudent engineering practices.

William J. Siplivy
Signature

2-24-98
Date

P.E. SEAL